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EXAMINER

CHOW, CHARLES CHIANG

ART UNIT	PAPER NUMBER
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2685

DATE MAILED: 12/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/704,796

Applicant(s)

KAY ET AL.

Examiner

Charles Chow

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. 6) ☐ Other: _____

Detailed Action

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-33, 35-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knee et al. (US 5,589,892) in view of Chaney et al. (US 5,515,106).

Regarding **claim 1**, Knee et al. (also as Knee in below) teaches a broadcast system (Fig. 1; col. 9, line 50 to col. 10, line 21) for distributing product data comprising a broadcast station (Local distributor 604, Fig. 58), configured to broadcast information including video programs (the interactive home shopping electronic program guides EPGs for TV in col. 6, lines 29-39; program guide schedule and program data information in abstract, Fig. 6/6A). Knee teaches plurality of program identifiers (the icons for TV guide 61A, Now showing 62A in Fig. 6, icons for Parental 70 in Fig. 7, and icons for 22-Lif, 1-Hot, 34 AMC, 8-SHO show-time in Fig. 19, col. 19, lines 8-35). The icons are uniquely associated with segment of the video programming.

Knee teaches a plurality of user stations each configured to receive the broadcast information (settops 605 in Fig. 1/Fig. 58 with tuner 28, TV 27 and micro-controller 16, for receiving plurality of program schedule, abstract). Knee teaches the user station to transmit a first product related request corresponding to the program segment to which the first product

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request relates (to central location via data processor due to user placing order of product using remote control device 31/40 in Fig. 3/4 (col. 6, lines 29-39). Knee teaches the code for program's rating, P, G, R, are transmitted along with program signal (col. 27, lines 6-15).

Knee teaches the ordering of pay-per-view information is transmitted via phone line, cable line, two-way communication or other such interactive capability (col. 20, lines 61-64).

Knee teaches the program identifiers field in database for each program (col. 23, lines 19-28), and stored identifying information for each program (col. 48, lines 3-8).

Knee teaches the broadcast central station is configure to receive the first product order request from user's ordering of pay-per-view, movies, having unique first product icon identifier (as shown above), and to identify programs or service via cable operator for sending to user (col. 20, line 67 to col. 21, line 4).

Knee does not teach clearly the transmitting and receiving of the unique program identifier.

Chaney et al. (also as Chaney in below) teaches the transmitting and receiving (title) of audio/video, TV program guide having the segment identifier SCID (col. 11, lines 54-60, Fig. 3, Fig. 1-2, Fig. 4-5). Chaney teaches an improved technique for reducing the amount of transmitting the program guide information and minimizing the usage of system bandwidth (col. 1, line 66 to col. 2, lines 25). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Knee, and to include Chaney's segment identifier SCID for transmitting program guide, such that system could efficiently transmit the program information and minimizing the usage of system bandwidth.

Regarding **claim 2**, Knee teaches the first product request relates to the programming segment being received at the time the request is transmitted, interactive user's program order

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of the electronic program guides EPG, such that the order request is at the time the programming segment is received, interactively (col. 3, lines 31-37; col. 4, lines 55-59; col. 5, lines 1-4, col. 8, lines 27-42).

Regarding **claim 3**, Knee teaches the user product request is transmitted in response to a user input to an input device (remote controller 30, 40, Fig. 3-4) configured to communicate with user station (col. 12, lines 14-25, Fig. 1).

Regarding **claim 4**, Knee teaches the transmitting of the pay-per-view and purchasing program to central station above. Knee teaches the retrieve the program data from database based on the stored identifier col. 23, lines 19-36).

Regarding **claim 5**, Knee teaches the first product list identifying more products (the program identifiers field in database for each program, col. 23, lines 19-28, and the stored identifying information for each program col. 48, lines 3-8). Knee teaches the icons for identifying of the program product data for TV, news, sport, and service (above). Knee teaches the displaying of the product list as shown in Fig. 19 for movie, sports, news and children, and the listing for NBC 4 news, HBO 33 Gremlins 2: The new batch, the NIK 38 I Love Lucy (in Fig. 25-26).

Regarding **claim 6**, Knee teaches the screen overlaying display definitions of product listing in accordance with the received video display control commands from data processing means (col. 48, lines 18-19), and the displayed format in Fig. 6, Fig. 18-22. Knee teaches the video display generator receives video control commands from the dam processor and program schedule information from the memory a portion of the program schedule information in overlaying relationship, and the data processor controls the video display generator with

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video control commands, issued in response to the user control commands, to display program schedule information for any chosen television program in overlaying relationship with at least one television program then appearing on any chosen one of the plurality of channels on the television receiver (col. 6, lines 15-28).

Regarding **claim 7**, Knee teaches the second plurality (of the first product data) is displayed according to a second screen display definition (the first product display in Fig. 22 for the pay-per-view; the second screen display definition for displaying of the pay-per-view in Fig. 23 for placing ordering of movie, and another secondary screen display definition of the subsequent display for pay-per-view confirmation in Fig. 24), for the second product screen display associated with the first product display, using different display definition.

Regarding **claim 8**, Knee teaches the user station in Fig. 1 displaying first product, such as new 190C in Fig. 19, simultaneously with the movies 190A, sports 190B, children 190D.

Regarding **claim 9**, Knee teaches the user will be prompted for entering of 4 digit key access code when the program-content-identifier is matched (col. 23, lines 20-36; col. 16, lines 39-48), and the allowing user to revise a number of program schedule parameters, then, to notify user of the options, such as to view the content-specific programming in Fig. 7 (col. 22, lines 16-25).

Regarding **claim 10**, Knee teaches the notifying of user the available program listing in a grid format from icon 65A, and the also the program listing from a folder-icon 65B to notify user of the available program (Fig. 6, Fig. 18/Fig. 19; col. 18, lines 14-40; col. 19, lines 8-20)

Regarding **claim 11**, Knee teaches the user station in Fig. 1 transmits second product order request for the pay-per view in Fig. 23, and the broadcast station transmits back the

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confirmation of the ordering of pay-per-view in Fig. 24A, for "No, I do not want to order", and in Fig. 24A Knee teaches a second product order confirmation with "Yes, I would like to order". Knee teaches the displayed information in Fig. 21, in response to a user's request for supplemental program ¹ supplemental information (col. 7, lines 64-65; col. 20, lines 3-36).

Regarding **claim 12**, Knee teaches the second product data information having product attribution information, in Fig. 19, channel 8 SHO show-time at 5:00 PM; channel 22, LIF at 4:00PM, and in Fig. 25-26. Knee teaches the product purchase information in Fig. 24A for purchasing a PayPerView for \$3.99.

Regarding **claim 13**, Knee teaches the user station in Fig. 1 displaying first product, such as new 190C in Fig. 19, simultaneously with the movies 190A, sports 190B, children 190D.

Regarding **claim 14**, Knee teaches the user product request is transmitted in response to a user input to an input device (remote controller 30, 40, Fig. 3-4) configured to communicate with user station (col. 12, lines 14-25, Fig. 1).

Regarding **claim 15**, Knee has shown in claim 1, the program information broadcast from local distributor to set-tops with the icons for the program guide and program data, via satellite dish (Fig. 58) or in-band data path via cable. Chaney has taught in claim 1 the transmitting of the segment identity for the television program.

Regarding **claim 16**, Knee teaches the broadcast program information in analog format having a vertical blanking interval and code corresponding to rating, parental category, title, channel in the vertical blanking interval (as shown in col. 27, lines 6-15).

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Regarding **claim 17**, Knee teaches a method in claim 1 of distributing program guide schedule and program data information to user, for user's interactive home shopping, to place order of products (col. 6, lines 29-39).

Knee teaches broadcasting over the broadcast system (Fig. 580 the television show-time program schedule and data having plurality of icon identifier, as shown in claim 1 above.

Knee teaches a plurality of user stations each configured to receive the broadcast information (set-tops 605 in Fig. 1/Fig. 58 with tuner 28, TV 27 and micro-controller 16, for receiving plurality of program schedule, abstract).

Knee teaches the user station to transmit a first product related request corresponding to the program segment to which the first product request relates (to central location via data processor due to user placing order of product using remote control device 30/40 in Fig. 3/4 (col. 6, lines 29-39). Knee teaches the ordering of pay-per-view information is transmitted via phone line, cable line, two-way communication or other such interactive capability (col. 20, lines 61-64). Knee teaches the program identifiers field in database for each program (col. 23, lines 19-28), and stored identifying information for each program (col. 48, lines 3-8).

Knee teaches the broadcast information if broadcast to user station (set-tops) and the broadcast central station is configure to receive the first product order request (PayPerView, Fig. 23-24) from user's ordering of pay-per-view, movies, having unique first product icon identifier (as shown above), and to identify programs or service via cable operator for sending to user (col. 20, line 67 to col. 21, line 4). Knee teaches the first product data is transmitted to set-top as a confirmation (Fig. 24-25). Knee teaches the user requests

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information by selecting "i"-supplemental information in Fig. 19 and obtained a response from broadcast system as shown in Fig. 20.

Knee does not teach clearly the transmitting and receiving of the unique program identifier.

Chaney et al. (also as Chaney in below) teaches the transmitting and receiving (title) of audio/video, TV program guide having the segment identifier SCID (col. 11, lines 54-60, Fig. 3, Fig. 1-2, Fig. 4-5). Chaney teaches an improved technique for reducing the amount of transmitting the program guide information and minimizing the usage of system bandwidth (col. 1, line 66 to col. 2, lines 25). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Knee, and to include Chaney's segment identifier SCID for transmitting program guide, such that system could efficiently transmit the program information and minimizing the usage of system bandwidth.

Regarding **claim 18**, Knee teaches the first product request relates to the programming segment being received at the time the request is transmitted, interactive user's program order of the electronic program guides EPG, such that the order request is at the time the programming segment is received, interactively (col. 3, lines 31-37; col. 4, lines 55-59; col. 5, lines 1-4, col. 8, lines 27-42).

Regarding **claim 19**, Knee teaches the transmitting of the pay-per-view and purchasing program to central station above. Knee teaches the retrieve the program data from database based on the stored identifier col. 23, lines 19-36).

Regarding **claim 20**, Knee teaches the screen overlaying display definitions of product listing in accordance with the received video display control commands from data processing means (col. 48, lines 18-19), and the displayed format in Fig. 6, Fig. 18-22. Knee teaches the video

display generator receives video control commands from the dam processor and program schedule information from the memory a portion of the program schedule information in overlaying relationship, and the data processor controls the video display generator with video control commands, issued in response to the user control commands, to display program schedule information for any chosen television program in overlaying relationship with at least one television program then appearing on any chosen one of the plurality of channels on the television receiver (col. 6, lines 15-28).

Regarding **claim 21**, Knee teaches the screen overlaying display definitions of product listing in accordance with the received video display control commands from data processing means (col. 48, lines 18-19), and the displayed format in Fig. 6, Fig. 18-22. Knee teaches the video display generator receives video control commands from the dam processor and program schedule information from the memory a portion of the program schedule information in overlaying relationship, and the data processor controls the video display generator with video control commands, issued in response to the user control commands, to display program schedule information for any chosen television program in overlaying relationship with at least one television program then appearing on any chosen one of the plurality of channels on the television receiver (col. 6, lines 15-28).

Regarding **claim 22**, Knee teaches the user station in Fig. 1 transmits second product order request for the pay-per view in Fig. 23, and the broadcast station transmits back the confirmation of the ordering of pay-per-view in Fig. 24A, for "No, I do not want to order", and in Fig. 24A Knee teaches a second product order confirmation with "Yes, I would like to


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order". Knee teaches the displayed information in Fig. 21, in response to a user's request for supplemental program i (col. 7, lines 64-65; col. 20, lines 3-36).

Regarding **claim 23**, Knee teaches the user station in Fig. 1 displaying first product, such as new 190C in Fig. 19, simultaneously with the movies 190A, sports 190B, children 190D.

Regarding **claim 24**, Knee teaches the user will be prompted for entering of 4 digit key access code when the program-content-identifier is matched (col. 23, lines 20-36; col. 16, lines 39-48), and the allowing user to revise a number of program schedule parameters, then, to notify user of the options, such as to view the content-specific programming in Fig. 7 (col. 22, lines 16-25).

Regarding **claim 25**, Knee teaches the notifying of user the available program listing in a grid format from icon 65A, and the also the program listing from a folder-icon 65B to notify user of the available program(Fig. 6, Fig. 18/Fig. 19; col. 18, lines 14-40; col. 19, lines 8-20)

Regarding **claim 26**, Knee teaches the user station in Fig. 1 transmits second product order request for the pay-per view in Fig. 23, and the broadcast station transmits back the confirmation of the ordering of pay-per-view in Fig. 24A, for "No, I do not want to order", and in Fig. 24A Knee teaches a second product order confirmation with "Yes, I would like to order". Knee teaches the displayed information in Fig. 21, in response to a user's request for supplemental program  (col. 7, lines 64-65; col. 20, lines 3-36).

Regarding **claim 27**, Knee teaches the second product data information having product attribution information, in Fig. 19, channel 8 SHO show-time at 5:00 PM; channel 22, LIF at 4:00PM, and in Fig. 25-26. Knee teaches the product purchase information in Fig. 24A for purchasing a PayPerView for \$3.99.

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Regarding **claim 28**, Knee teaches the user station in Fig. 1 displaying first product, such as new 190C in Fig. 19, simultaneously with the movies 190A, sports 190B, children 190D.

Regarding **claim 29**, Knee teaches the user station in Fig. 1 transmits second product order request for the pay-per view in Fig. 23, and the broadcast station transmits back the confirmation of the ordering of pay-per-view in Fig. 24A, for "No, I do not want to order", and in Fig. 24A Knee teaches a second product order confirmation with "Yes, I would like to order". Knee teaches the displayed information in Fig. 21, in response to a user's request for supplemental program i (col. 7, lines 64-65; col. 20, lines 3-36).

Regarding **claim 30**, Knee teaches the user product request is transmitted in response to a user input to an input device (remote controller 30, 40, Fig. 3-4) configured to communicate with user station (col. 12, lines 14-25, Fig. 1).

Regarding **claim 31**, Knee has shown in claim 1, the program information broadcast from local distributor to settops with the icons for the program guide and program data, via satellite dish (Fig. 58) or in-band data path via cable. Chaney has taught in claim 1 the transmitting of the segment identity for the television program.

Regarding **claim 32**, Knee teaches the broadcast program information in analog format having a vertical blanking interval and code corresponding to rating, parental category, title, channel in the vertical blanking interval (as shown in col. 27, lines 6-15).

Regarding **claim 33**, Knee teaches a broadcast programming user station (set-top and user station in Fig. 1) comprising tuner 28 (Fig.1) for broadcast program with icon identifier in the interactive electronic program guides EPG system (claim 1). Knee teaches the channel to receive the broadcast segment of video program in the all listing information (col. 14, lines

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22-30). Knee teaches a display screen configured to display the video program in a overlaying manner (col. 48, lines 18-19; col. 6, lines 15-28). Knee teaches the microcontroller 16 (Fig. 1) transmits the order information in col. 20, lines 61-66, above). Knee teaches the tuned channel in tuner for transmitting product request (col. 14, line 1-17). Regarding **claim 35**, Knee teaches the command from data processor to control the overlaying display of the available program with simultaneous displaying of an icon associated with video program (above in claims 1, 6, 7).

Regarding **claim 36**, Knee teaches an input device, remote control 31/40 in Fig. 3/Fig. 4, for communicating user to processor (col. 12, lines 14-25) for generating product request "i"-supplement information or the selecting of the icon in main menu (above).

Regarding **claim 37**, Knee teaches the input device is a television remote control 31/40 is for TV 27 in Fig. 1.

Regarding **claim 38**, Knee teaches a user station (Fig. 1) having a tuner 28, configured to receive production program information with unique icon identifier transmitted to user station upon user request as shown in claim 33. Knee teaches the microcontroller 16 (Fig. 1) transmits the order information in col. 20, lines 61-66, above). Knee teaches the tuned channel in tuner for transmitting product request (col. 14, line 1-17). Knee teaches the command from data processor to control the overlaying display of the available program with simultaneous displaying of an icon associated with video program (above in claims 1, 6, 7).

Regarding **claim 39**, Knee teaches the product data listing includes a listing identifying one or more products (as shown in Fig. 18-20).

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Regarding **claim 40**, Knee teaches the second product data information having product attribution information, in Fig. 19, channel 8 SHO show-time at 5:00 PM; channel 22, LIF at 4:00PM, and in Fig. 25-26. Knee teaches the product purchase information in Fig. 24A for purchasing a PayPerView for \$3.99.

Regarding **claim 41**, Knee has taught above the in-band data path through the cable in Fig. 58, and the out-band data path through satellite dish in Fig. 58.

Regarding **claim 42**, Knee teaches an input device, remote control 31/40 in Fig. 3/Fig. 4, for communicating user to processor (col. 12, lines 14-25) for generating product request "i"-supplement information or the selecting of the icon in main menu (above).

Regarding **claim 43**, Knee teaches the input device is a television remote control 31/40 is for TV 27 in Fig. 1.

Regarding **claim 44**, Knee teaches the screen overlaying display definitions of product listing in accordance with the received video display control commands from data processing means (col. 48, lines 18-19), and the displayed format in Fig. 6, Fig. 18-22. Knee teaches the video display generator receives video control commands from the dam processor and program schedule information from the memory a portion of the program schedule information in overlaying relationship, and the data processor controls the video display generator with video control commands, issued in response to the user control commands, to display program schedule information for any chosen television program in overlaying relationship with at least one television program then appearing on any chosen one of the plurality of channels on the television receiver (col. 6, lines 15-28).

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Regarding **claim 45**, Knee has shown in claim 1, the program information broadcast from local distributor to set-tops with the icons for the program guide and program data, via satellite dish (Fig. 58) or in-band data path via cable. Chaney has taught in claim 1 the transmitting of the segment identity for the television program.

Regarding **claim 46**, Knee teaches the broadcast program information in analog format having a vertical blanking interval and code corresponding to rating, parental category, title, channel in the vertical blanking interval (as shown in col. 27, lines 6-15).

Regarding **claim 47**, Knee teaches the tuner 28, microprocessor 16 for the television set-top as shown in col. 9, lines 50-58.

2. Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knee in view of Chaney, and further in view of Voyticky et al. (US 6,438,751 B1).

Regarding **claim 34**, Knee and Chaney above do not clearly teach the tuner tuned at the time the product request is transmitted, although Knee has considered the tuner 28 and channel to receiving program information (col. 14, lines 19-30).

Voyticky et al. (also as Voyticky in below) teaches the tuner configuration table 250 (Fig. 4), and the channel setting (S421, Fig. 9), for the broadcast television product information to using according to table 909, content ID, 910 (Fig. 16A/16B; col. 13, lines 35-44), for identifying program using content ID. Voyticky teaches the process of mapping broadcast time to program time using skew time at server to retrieve program was process, and using time stamps (col. 12, line 45 to col. 22). Voyticky teaches an improved efficient method for

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purchasing good and service displayed in television broadcast (col. 1, lines 6-8; col. 2, lines 19-49) by ordering via internet while watching television. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Knee above, and to include Voyticky's configuring of tuner for the skew time, time stamp for retrieving broadcast program, and the internet purchasing, such that system could efficient purchase, retrieve and view the broadcast program.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

A. US 5,926,205, July 1999, Krause et al. teaches the identifier for each segment 1-n of the broadcast video program (abstract, Fig. 1, co. 16, lines 10-21).

B. US 5,421,031, May 1995, De Bey teaches the receiving of the segment identifier at receiver for decompressing the data of the received optimized CATV program code.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Chow whose telephone number is (703)-306-5615.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703)-305-4385.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: (703) 872-9306 (for Technology Center 2600 only)

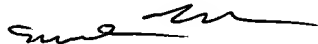
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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to the Technology Center 2600 Customer Service Office
whose telephone number is (703) 306-0377.

Charles Chow *C.C.*

November 18, 2003.


EDWARD F. URBAN
SUPERVISORY PATENT ENGINEER
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